—	219	(((solder adj (bump ball)) and metallurgy) and barrier) not ((((ubm barrier blm (ball adj limiting adj metallurgy) (under adj bump adj metallurgy))) near3 ((cu near1 (ti ni)) (copper near (titanium nikel))))) (((ubm (ball adj limiting adj metallurgy) (under adj bump adj metallurgy)) and barrier) and (257/772 257/773 257/776 257/779 257/780)) (((257/772 257/773 257/776 257/779 257/780) and ((ubm (ball adj limiting adj metallurgy) (under adj bump adj metallurgy)))) not (((ubm (ball adj limiting adj metallurgy) (under adj bump adj metallurgy)) and barrier) and (257/772 257/773 257/776 257/779 257/780))) (((257/772 257/773 257/776 257/779 257/780) and (barrier adj layer)) and metallurgy))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/13 08:31
—	10	("4495222" | "4761386" | "4933305" | "5130779" | "5284797" | "5350488" | "5384284" | "5403777" | "5567654" | "6133136").PN.	USPAT	2002/06/13 08:35
—	5	("4434434" | "5268072" | "5629564" | "5785236" | "5795819").PN.	USPAT	2002/06/13 08:36
—	15	4761386.URPN.	USPAT	2002/06/13 08:38
—	5	("3806361" | "4106051" | "4109275" | "4149301" | "4628590").PN.	USPAT	2002/06/13 08:40
—	0	6333559.URPN.	USPAT	2002/06/13 08:40
—	10	5384283.URPN.	USPAT	2002/06/13 08:46
—	8	"5872399"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/13 08:53
—	5	("5504277" | "5521435" | "5557844" | "5668405" | "5669783").PN.	USPAT	2002/06/13 08:55
—	543	(ubm (underbump near metallization)(ball near1 metallurgy) (under adj bump adj metallurgy))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 08:11
—	387	((ubm (underbump near metallization)(ball near1 metallurgy) (under adj bump adj metallurgy))) and (ti titanium chrom cr nickel ni gold au copper cu)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/12 10:46
—	118	(((ubm (underbump near metallization)(ball near1 metallurgy) (under adj bump adj metallurgy))) and (ti titanium chrom cr nickel ni gold au copper cu)) and (ti titanium) and (nickel ni) and (gold au)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/12 10:48
—	26	(((ubm (underbump near metallization)(ball near1 metallurgy) (under adj bump adj metallurgy))) and (ti titanium) and (nickel ni) and (gold au)) and (angstroms micrometer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/12 10:49
—	118	((ubm (underbump near metallization)(ball near1 metallurgy) (under adj bump adj metallurgy))) and (ti titanium) and (nickel ni) and (gold au)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 08:16
—	0	6489229.URPN.	USPAT	2003/03/12 12:09
—	10	("3458925" | "4434434" | "4516525" | "4622205" | "4646958" | "5137845" | "5470787" | "6107180" | "6184061" | "6417089").PN.	USPAT	2003/03/12 12:09
—	4	("5349500" | "5902686" | "6251766" | "6258703").PN.	USPAT	2003/03/12 13:47
—	10	("3663184" | "4661375" | "5162257" | "5376584" | "5480835" | "5492235" | "5736456" | "5767010" | "5773359" | "6133136").PN.	USPAT	2003/03/12 13:48

–	27	((ubm (underbump near metallization)(ball near1 metallurgy) (under adj bump adj metallurgy))) with (ti titanium) with (nickel ni) with (gold au)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/12 16:13
–	2	6348399.URPN.	USPAT	2003/03/12 16:18
–	2	6348399.URPN.	USPAT	2003/03/12 16:19
–	9	("5323051" | "5620928" | "5656550" | "5830800" | "5925936" | "5930603" | "6004867" | "6204559" | "6238952").PN.	USPAT	2003/03/12 16:19
–	2	6348399.URPN.	USPAT	2003/03/13 07:58
–	9	("5323051" | "5620928" | "5656550" | "5830800" | "5925936" | "5930603" | "6004867" | "6204559" | "6238952").PN.	USPAT	2003/03/13 07:59
–	2617	(ubm (underbump near1 metallization) blm plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 08:45
–	28	((ubm (underbump near1 metallization) blm plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))) with (ti titanium) with (nickel ni) with (gold au)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 10:20
–	0	6179200.URPN.	USPAT	2003/03/13 08:23
–	7	("5493075" | "5535936" | "5607099" | "5658827" | "5775569" | "5791552" | "5825629").PN.	USPAT	2003/03/13 08:23
–	26	"5298459"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 08:33
–	28	"5268072"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 08:34
–	61	("5298459" "5268072") not6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 08:34
–	48	("5298459" "5268072") not (((ubm (underbump near1 metallization) blm plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))) with (ti titanium) with (nickel ni) with (gold au))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 08:34
–	48	"5298459" "5268072"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 08:35
–	15	("5298459" "5268072") and (ti titanium) and (nickel ni) and (gold au)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 09:02
–	18	("4582745" | "5137845" | "5268072" | "5418186" | "5445705" | "5456788" | "5462638" | "5543032" | "5629564" | "5705428" | "5767010" | "5775569" | "5902686" | "5937320" | "5946590" | "6015505" | "6025649" | "6130170").PN.	USPAT	2003/03/13 08:36
–	3	"6387793"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 09:02
–	10	("3663184" | "4661375" | "5162257" | "5376584" | "5480835" | "5492235" | "5736456" | "5767010" | "5773359" | "6133136").PN.	USPAT	2003/03/13 09:02
–	30	3663184.URPN.	USPAT	2003/03/13 09:49
–	13	4514751.URPN.	USPAT	2003/03/13 09:50
–	7	("3037180" | "3141226" | "3287612" | "3361592" | "3395993" | "3409809" | "3480412").PN.	USPAT	2003/03/13 09:55

—	83	((ubm (underbump near1 metallization) blm plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))) and ((ti titanium) with (nickel ni) with (gold au))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 10:21
—	55	(((ubm (underbump near1 metallization) blm plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))) and ((ti titanium) with (nickel ni) with (gold au))) not (((ubm (underbump near1 metallization) blm plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))) with (ti titanium) with (nickel ni) with (gold au))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 12:33
—	0	6333559.URPN.	USPAT	2003/03/13 14:50
—	10	("4495222" | "4761386" | "4933305" | "5130779" | "5284797" | "5350488" | "5384284" | "5403777" | "5567654" | "6133136").PN.	USPAT	2003/03/13 14:50
—	8	"6187680"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 15:24
—	4	("5136364" | "6107170" | "6133136" | "6187680" | "2002/0003302").PN.	USPAT	2003/03/13 15:24
—	21	5136364.URPN.	USPAT	2003/03/13 15:28
—	4	("5136364" | "6107170" | "6133136" | "6187680" | "2002/0003302").PN.	USPAT	2003/03/13 15:32
—	5	6187680.URPN.	USPAT	2003/03/13 16:19
—	9	("4495222" | "4761386" | "4933305" | "5284797" | "5350488" | "5384284" | "5403777" | "5416278" | "5567654").PN.	USPAT	2003/03/13 16:19
—	2617	(ubm (underbump near metallization) blm plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 09:49
—	70	al adj stack	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 08:49
—	0	((ubm (underbump near metallization) blm plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))) with (al adj stack)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 08:49
—	873	al near2 stack	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 08:49
—	0	((ubm (underbump near metallization) blm plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))) with (al near2 stack)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 08:49
—	4	((ubm (underbump near metallization) blm plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))) and (al near2 stack)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 09:02
—	5	6187680.URPN.	USPAT	2003/03/14 08:53
—	6257	plated near1 through near1 hole	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 09:03
—	0	(plated near1 through near1 hole) and ((embedding embedded) with (screen adj printing))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 09:03
—	138	(embedding embedded) with (screen adj printing)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 09:11

-	0	((embedding embedded) with (screen adj printing)) with "or"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 09:06
-	0	((embedding embedded) with (screen adj printing)) with cvd	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 09:11
-	0	(plated near1 through near1 hole) with cvd	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 09:11
-	0	6451681.URPN.	USPAT	2003/03/14 09:16
-	6	("5134460" | "5731624" | "5795819" | "5864946" | "6133136" | "6187680").PN.	USPAT	2003/03/14 09:16
-	19	("4237606" | "5244833" | "5293025" | "5302219" | "5442852" | "5611884" | "5637832" | "5658827" | "5691245" | "5744758" | "5817404" | "5902686" | "5925930" | "6107180" | "6143116" | "6181569" | "6187680" | "6192579" | "6341417").PN.	USPAT	2003/03/14 09:19
-	13	5902686.URPN.	USPAT	2003/03/14 09:28
-	3	6258705.URPN.	USPAT	2003/03/14 09:31
-	10	("4927505" | "5137845" | "5369299" | "5563102" | "5736456" | "5773359" | "5902686" | "5903058" | "5904859" | "6015652").PN.	USPAT	2003/03/14 09:32
-	6	5904859.URPN.	USPAT	2003/03/14 09:35
-	3	("5773359" | "5904859" | "5985694").PN.	USPAT	2003/03/14 09:38
-	3	("5773359" | "5904859" | "5985694").PN.	USPAT	2003/03/14 09:39
-	5	("3809588" | "4396900" | "4434434" | "4747907" | "5503286").PN.	USPAT	2003/03/14 09:39
-	18	("3887760" | "4921157" | "4950623" | "5048744" | "5152451" | "5160409" | "5162257" | "5167361" | "5293006" | "5327013" | "5407121" | "5415944" | "5470787" | "5499754" | "5617989" | "5629564" | "5641113" | "5767010").PN.	USPAT	2003/03/14 09:41
-	501	(ubm (under near1 bump near1 metallurgy))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 09:50
-	50	((ubm (under near1 bump near1 metallurgy))) near3 (titanium chrome nickel platinum)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 09:51
-	102	((ubm (under near1 bump near1 metallurgy))) with (titanium chrome nickel platinum)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 09:51

L Number	Hits	Search Text	DB	Time stamp
19	5	("5894410" | "5990547" | "6169329" | "6175160" | "6413851").PN.	USPAT	2003/03/14 13:43
20	0	6501185.URPN.	USPAT	2003/03/14 13:43
119	32	"5767010"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 16:12
120	1	5767010.pn. and "42"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 16:14
121	1	5767010.pn. and (tin lead)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/14 16:14